

*Sub
B1*

What is claimed is:

1. A computer implemented method comprising receiving data representing a visual form of data comprising content data and format data indicating the manner in which the content data is to be visually represented; and

5 identifying at least some of the content data in accordance with a template; and storing the identified content data.

2. The method of claim 1 further comprising normalizing the data representing the visual form of data.

10 3. The method of claim 2 wherein the data is normalized in accordance with a displayed form of the visual form of data.

4. The method of claim 2 wherein the visual form of data is characterized by a plurality of dimensions characterized by at least two coordinate systems, wherein normalizing the data representing the visual form of data includes converting values expressed in the two coordinate system into a common coordinate system.

15 5. The method of claim 4 wherein the common coordinate system is the coordinate system of a displayed form of the visual form of data.

6. The method of claim 4 wherein the template includes at least one extraction instruction for identifying said at least some of the content data from the received data, and the extraction instruction includes information indicating location of at least some of the content data based on the common coordinate system.

20 7. The method of claim 1 wherein the data representing the visual form of data comprises data in a format required by an operating system layer for outputting the visual form of data by a printer.

8. The method of claim 7 wherein the operating system layer is Windows operating system and the data representing the visual form of data is a Windows metafile.

9. The method of claim 1 wherein the template includes at least one extraction instruction for identifying said at least some of the content data from the received data.

10. The method of claim 9 wherein the visual form of data is characterized by a plurality of dimensions characterized by a coordinate system and the extraction instruction includes information indicating location of the desired data based on the coordinate system.

11. The method of claim 9 wherein the visual form of data is characterized by a plurality of dimensions and the extraction instruction includes information with respect to location of a reference marker and a direction in one of the plurality of dimensions,

15 wherein identifying at least some of the content data includes searching in the direction for identifying at least some of the content data in the direction.

12. The method of claim 9 further comprising:
displaying a sample visual form of data,
receiving data from a user indicating location of data selected by the user in
20 the displayed sample visual form of data, and
forming the extraction instruction based on location data identifying the
location of the data selected by the user.

13. The method of claim 12 further comprising:
storing the extraction instruction.

25 14. The method of claim 13 further comprising:
storing the extraction instruction in association with data representing the
sample visual form of data.

15. The method of claim 1 wherein the received data further represents a plurality of visual forms of data.

16. The method of claim 15 wherein storing the identified content data further includes:

5 storing the identified content data in association with data representing a corresponding one of a plurality of visual forms of data.

~~17.~~ Computer readable media containing a computer program comprising instructions for:

10 receiving data representing a visual form of data comprising content data and format data indicating the manner in which the content data is to be visually represented;

 identifying at least some of the content data in accordance with a template; and
 storing the identified content data.

18. Computer system comprising:

15 a input port that receives data representing a visual form of data comprising content data and format data indicating the manner in which the content data is to be visually represented;

 a processor that identifies at least some of the content data in accordance with a template; and

20 a storage media that stores the identified content data.

19. A method comprising:

for:
 transmitting data representing a computer program comprising instructions

25 receiving data representing a visual form of data comprising content data and format data indicating the manner in which the content data is to be visually represented;

 identifying at least some of the content data in accordance with a

template; and

storing the identified content data.

20. A graphical user interface comprising:

a region for displaying a sample visual form of data,

5 a region enabling a user to input location data identifying a location of data selected by the user, and

a region causing a computer program to form an extraction instruction using the location data identifying the location of the data selected by the user.

21. A computer implemented method comprising:

10 displaying, on a display, a sample visual form of data,

displaying, on the display, a region enabling a user to input location data identifying a location of data selected by the user, and

displaying, on the display, a region causing a computer program to form an extraction instruction using the location data identifying the location of the data selected by the user.

15

22. Computer system comprising:

a processor, and

a display,

the processor executing instructions causing the display to:

20 displaying a sample visual form of data,

displaying a region enabling a user to input location data identifying a location of data selected by the user, and

displaying a region causing a computer program to form an extraction instruction using the location data identifying the location of the data selected by the user.

25

23. Computer readable media storing a program comprising instructions for:

displaying, on a display, a sample visual form of data,

displaying, on the display, a region enabling a user to input location data

identifying a location of data selected by the user; and
displaying, on the display, a region causing a computer program to form an extraction instruction using the location data identifying the location of the data selected by the user.

5 24. A method comprising:
transmitting data representing a computer program comprising instructions
for:

displaying, on a display, a sample visual form of data,
displaying, on the display, a region enabling a user to input location
10 data identifying a location of data selected by the user, and
displaying, on the display, a region causing a computer program to form an extraction instruction using the location data identifying the location of the data selected by the user.

SuB 3
15 25. A computer implemented method comprising
receiving data representing a visual form of data comprising content data and format data indicating the manner in which the content data is to be visually represented;
identifying at least some of the content data in accordance with a template; and initiating performance of an action based on results of said identifying of at
20 least some of the content data.

26. Computer readable media containing a computer program comprising instructions for:

receiving data representing a visual form of data comprising content data and format data indicating the manner in which the content data is to be visually represented;
identifying at least some of the content data in accordance with a template; and initiating performance of an action based on results of said identifying of at least some of the content data.

~~27. Computer system comprising:~~

~~a input port that receives data representing a visual form of data comprising content data and format data indicating the manner in which the content data is to be visually represented; and~~

~~5 a processor that identifies at least some of the content data in accordance with a template and initiates performance of an action based on results of said identification of at least some of the content data.~~

~~10 28. A computer implemented method of receiving information defining a parsing criterion comprising~~

~~displaying a graphical user interface for displaying a multi-dimensional document containing multiple units of information;~~

~~15 receiving first information from a user identifying a location within the displayed document, and second information specifying a desired unit of information based on a location of the desired unit of information relative to the identified location, wherein the information defining the parsing criterion includes the first and second information.~~

~~20 29. The method of claim 28 further comprising:~~

~~parsing a plurality of documents to identify units of information based on the parsing criterion.~~

~~30. The method of claim 29 further comprising:~~

~~25 storing the identified units of information on a computer readable medium.~~

~~31. The method of claim 28 further comprising:~~

~~parsing the document based on the parsing criterion to identify the desired unit of information.~~

~~30~~

~~32. The method of claim 31 further comprising~~

processing the identified information to arrive at new information.

33. The method of claim 31 further comprising:
receiving information identifying at least one user-definable action to be
5 performed on the identified information.
34. Computer readable media containing a computer program for receiving
information defining a parsing criterion comprising instructions for:
displaying a graphical user interface for displaying a multi-dimensional
document containing multiple units of information;
10 receiving first information from a user identifying a location within the
displayed document, and second information specifying a desired unit of information
based on a location of the desired unit of information relative to the identified
location, wherein the information defining the parsing criterion includes the first and
second information.
- 15 35. Computer system for receiving information defining a parsing criterion
comprising:
a display that displays a graphical user interface for displaying a multi-
dimensional document containing multiple units of information;
an input port receiving first information from a user identifying a location
20 within the displayed document, and second information specifying a desired unit of
information based on a location of the desired unit of information relative to the
identified location, wherein the information defining the parsing criterion includes the
first and second information.
- 25 36. A computer implemented method of receiving information defining a
parsing criterion comprising
displaying a graphical user interface for displaying a multi-dimensional
document containing multiple units of information;
receiving first information from a user identifying a visual marker within the
displayed document, and second information defining a desired unit of information

within the document by specifying a relative position of the unit of information with respect to the marker, wherein the information defining the parsing criterion includes the first and second information.

5 37. Computer readable media containing a computer program for receiving information defining a parsing criterion comprising instructions for:

displaying a graphical user interface for displaying a multi-dimensional document containing multiple units of information;

10 receiving first information from a user identifying a visual marker within the displayed document, and second information defining a desired unit of information within the document by specifying a relative position of the unit of information with respect to the marker, wherein the information defining the parsing criterion includes the first and second information.

15 38. Computer system for receiving information defining a parsing criterion comprising:

a display that displays a graphical user interface for displaying a multi-dimensional document containing multiple units of information;

20 an input port first information from a user identifying a visual marker within the displayed document, and second information defining a desired unit of information within the document by specifying a relative position of the unit of information with respect to the marker, wherein the information defining the parsing criterion includes the first and second information.

39. A computer implemented method of receiving information defining a parsing criterion comprising

25 displaying a graphical user interface for displaying a multi-dimensional document containing multiple units of information displayed in a multi-dimensional space;

30 receiving first information a user identifying a region within the displayed document, and second information defining a desired unit of information within the document by specifying a relative position of the unit of information with respect to

the region, wherein the information defining the parsing criterion includes the first and second information.

40. The method of claim 39 wherein the second information indicates that
5 the desired unit of information overlaps with the identified region.

41. The method of claim 39 wherein the second information indicates that the desired unit of information is contained within the identified region.

10 42. Computer readable media containing a computer program for receiving information defining a parsing criterion comprising instructions for:

displaying a graphical user interface for displaying a multi-dimensional document containing multiple units of information displayed in a multi-dimensional space;

15 receiving first information from a user identifying a region within the displayed document, and second information defining a desired unit of information within the document by specifying a relative position of the unit of information with respect to the region, wherein the information defining the parsing criterion includes the first and second information.

20 43. Computer system for receiving information defining a parsing criterion comprising:

a display that displays a graphical user interface for displaying a multi-dimensional document containing multiple units of information;

25 an input port receiving first information from a user identifying a visual marker within the displayed document, and second information defining a desired unit of information within the document by specifying a relative position of the unit of information with respect to the marker, wherein the information defining the parsing criterion includes the first and second information.

30

~~44.~~ A computer implemented method comprising
displaying a graphical user interface for displaying a multi-dimensional
document containing multiple units of information displayed in a multi-dimensional
space;

5 receiving first information from a user defining a desired unit of information
within the document by specifying a relative position of the unit of information and
second information identifying an action to be executed depending on the existence or
non-existence of the unit of information within the document.

~~10 45.~~ Computer readable media containing a computer program comprising
instructions for:

displaying a graphical user interface for displaying a multi-dimensional
document containing multiple units of information displayed in a multi-dimensional
space;

~~15~~ receiving first information from a user defining a desired unit of information
within the document by specifying a relative position of the unit of information and
second information identifying an action to be executed depending on the existence or
non-existence of the unit of information within the document.

~~20 46.~~ Computer system program for receiving information defining a parsing
criterion comprising:

a display that displays a graphical user interface for displaying a multi-
dimensional document containing multiple units of information displayed in a multi-
dimensional space;

~~25~~ an input port that receives first information from a user defining a desired unit
of information within the document by specifying a relative position of the unit of
information and second information identifying an action to be executed depending on
the existence or non-existence of the unit of information within the document.

~~47.~~ A computer implemented method comprising
displaying a graphical user interface for displaying a multi-dimensional
document containing multiple units of information displayed in a multi-dimensional

space;

receiving first information from a user defining a desired unit of information within the document by specifying a relative position of the unit of information and second information identifying an action to be executed depending on the existence or
5 non-existence of the unit of information within a selected region of the document.

48. Computer readable media containing a computer program comprising instructions for:

displaying a graphical user interface for displaying a multi-dimensional
10 document containing multiple units of information displayed in a multi-dimensional space;

receiving first information from a user defining a desired unit of information within the document by specifying a relative position of the unit of information and second information identifying an action to be executed depending on the existence or
15 non-existence of the unit of information within a selected region of the document.

49. Computer system program for receiving information defining a parsing criterion comprising:

a display that displays graphical user interface for displaying a multi-dimensional document containing multiple units of information displayed in a multi-dimensional space;

an input port that receives first information from a user defining a desired unit of information within the document by specifying a relative position of the unit of information and second information identifying an action to be executed depending on the existence or non-existence of the unit of information within a selected region of the document.
25

Add #1

Add C2